

EXPRESS MAIL NO. EL615209264US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ZHONG, Pingyu., *et. al*

Application Serial No. To Be Assigned

Filed: herewith

For: COMPOSITIONS AND METHODS FOR
GENERATING CHIMERIC
HETEROMULTIMERS

Attorney's Docket No:
13403.0004NPUS00

STATEMENT REGARDING SEQUENCE SUBMISSION

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the Sequence Listing and the computer readable copy of the Sequence Listing submitted herewith in the above-mentioned application are the same.

In accordance with 37 C.F.R. § 1.821(g), this submission includes no new matter.

Respectfully submitted,



Karen K. Wong (Reg No. 44,409)
Glenn W. Rhodes (Reg. No. 31,790)

Date: August 1, 2001

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SEQUENCE LISTING

<110> ZHONG, Pingyu et al.

<120> COMPOSITIONS AND METHODS FOR GENERATING
CHIMERIC HETEROMULTIMERS

<130> 13403.0004.NPUS00

<140> To Be Assigned

<141>

<160> 30

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<210> 1

<211> 146

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)...(132)

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aac	cgt	gaa	ctg	gaa	aag	atc	att	gct	gag	aaa	gag	gag	cgt	gtc	tct	96
Asn	Arg	Glu	Leu	Glu	Lys	Ile	Ile	Ala	Glu	Lys	Glu	Glu	Arg	Val	Ser	
			20					25					30			

gaa	ctg	cgc	cat	caa	ctc	cag	tct	gta	gga	ggt	tgt	taatagggcg	142
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<212> PRT

<213> Homo sapiens

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Glu	Leu	Arg	His	Gln	Leu	Gln	Ser	Val	Gly	Gly	Cys				
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 Val Pro Asp Tyr Ala Gly Gly His His His His His Arg Ser Gly
 35 40 45
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 Lys Glu Ser
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 tat tac tcg cgg ccc agc cgg cca tgg cgg ccc tgc agg cct cta gag 144
 cgg ccg ctt atc cat acg acg tac cag act acg cag gag gtc atc acc 192
 atc atc acc att aga gat ctg gag gcg gta ctg ttg aaa gtt gtt tag 240
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 Pro Tyr Asp Val Pro Asp Tyr Ala Gly Gly His His His His His His
 35 40 45
 Arg Ser Gly Gly Gly Thr Val Glu Ser Cys Leu Ala Lys Ala Asn Ile
 50 55 60
 Leu Arg Asn Lys Glu Ser
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 Val Pro Met Leu Ser Phe Ala Ser Arg Gly Gly Gly Gly Glu Glu Lys
 20 25 30

tcc cgg ctg ttg gag aag gag aac cgt gaa ctg gaa aag atc att gct 144
 Ser Arg Leu Leu Glu Lys Glu Asn Arg Glu Leu Glu Lys Ile Ile Ala
 35 40 45

gag aaa gag gag cgt gtc tct gaa ctg cgc cat caa ctc cag tct gta 192
 Glu Lys Glu Glu Arg Val Ser Glu Leu Arg His Gln Leu Gln Ser Val
 50 55 60

gga ggt tgt taa tag ggc gcg cca caa ttt cac agt aag gag gtt taa 240
 Gly Gly Cys * * Gly Ala Pro Gln Phe His Ser Lys Glu Val *
 65 70 75

ctt atg aaa aaa tta tta ttc gca att cct tta gtt gtt cct ttc tat 288
 Leu Met Lys Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr
 80 85 90

tct cac tcc gct acg cgt tct cga gga ggt ggt gga aca tcc cgc ctg 336
 Ser His Ser Ala Thr Arg Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu
 95 100 105

gag ggc cta cag tca gaa aac cat cgc ctg cga atg aag atc aca gag 384
 Glu Gly Leu Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu
 110 115 120 125

ctg gat aaa gac ttg gaa gag gtc acc atg cag ctg cag gac gtc gga 432
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 130 135 140

ggt tgc gcg gcc gct tat cca tac gac gta cca gac tac gca gga ggt 480
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<210> 14
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Met Lys Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser
80 85 90

cac tcc gct acg cgt tct cga gga ggt ggt gga aca tcc cgc ctg gag 336
His Ser Ala Thr Arg Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu Glu
95 100 105

ggc cta cag tca gaa aac cat cgc ctg cga atg aag atc aca gag ctg 384
Gly Leu Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu
110 115 120 125

gat aaa gac ttg gaa gag gtc acc atg cag ctg cag gac gtc gga ggt 432
Asp Lys Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly
130 135 140

tgc gcg gcc gct tat cca tac gac gta cca gac tac gca gga ggt cat 480
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145 150 155

cac cat cat cac cat tag 498
His His His His His *
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<211> 162
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35 40 45
Lys Glu Glu Arg Val Ser Glu Leu Arg His Gln Leu Gln Ser Val Gly
50 55 60
Gly Cys Gly Ala Pro Gln Phe His Ser Lys Glu Val Leu Met Lys Lys
65 70 75 80
Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser His Ser Ala
85 90 95
Thr Arg Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu Glu Gly Leu Gln
100 105 110
Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp Lys Asp
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Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Gly His His His His

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His His

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Val Pro Met Leu Ser Phe Ala Ser Arg Gly Gly Gly Gly Glu Glu Lys
 20 25 30

tcc cgg ctg ttg gag aag gag aac cgt gaa ctg gaa aag atc att gct 144
Ser Arg Leu Leu Glu Lys Glu Asn Arg Glu Leu Glu Lys Ile Ile Ala
 35 40 45

gag aaa gag gag cgt gtc tct gaa ctg cgc cat caa ctc cag tct gta 192
Glu Lys Glu Glu Arg Val Ser Glu Leu Arg His Gln Leu Gln Ser Val
 50 55 60

gga ggt tgt taa tag ggc gcg cca caa ttt cac agt aag gag gtt taa 240
Gly Gly Cys * * Gly Ala Pro Gln Phe His Ser Lys Glu Val *
65 70 75

ctt atg aaa aaa tta tta ttc gca att cct tta gtt gtt cct ttc tat 288
Leu Met Lys Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr
 80 85 90

tct cac tcc gct acg cgt tct cga gga ggt ggt gga aca tcc cgc ctg 336
Ser His Ser Ala Thr Arg Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu
 95 100 105

gag ggc cta cag tca gaa aac cat cgc ctg cga atg aag atc aca gag 384
Glu Gly Leu Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu
110 115 120 125

ctg gat aaa gac ttg gaa gag gtc acc atg cag ctg cag gac gtc gga 432
Leu Asp Lys Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly
 130 135 140

ggt tgc gcg gcc gct tat cca tac gac gta cca gac tac gca gga ggt 480
Gly Cys Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Gly
 145 150 155

cat cac cat cat cac cat tag gga ggc ggt act gtt gaa agt tgt ctg 528
His His His His His His * Gly Gly Gly Thr Val Glu Ser Cys Leu

TOPT44-030-000

160 165 170 552
 cgt aat aag gag tct taagtcgac
 Arg Asn Lys Glu Ser
 175

<210> 18
 <211> 185
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 35 40 45
 Glu Lys Glu Glu Arg Val Ser Glu Leu Arg His Gln Leu Gln Ser Val
 50 55 60
 Gly Gly Cys Gly Ala Pro Gln Phe His Ser Lys Glu Val Leu Met Lys
 65 70 75 80
 Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser His Ser
 85 90 95
 Ala Thr Arg Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu Glu Gly Leu
 100 105 110
 Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp Lys
 115 120 125
 Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys Ala
 130 135 140
 Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Gly His His His
 145 150 155 160
 His His His Arg Ser Gly Gly Gly Thr Val Glu Ser Cys Leu Ala Lys
 165 170 175
 Ala Asn Ile Leu Arg Asn Lys Glu Ser
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 gcc cag ccg gcc atg gcg tct aga ggt gga gga ggt gag gag aag tcc 96

Ala Gln Pro Ala Met Ala Ser Arg Gly Gly Gly Gly Glu Glu Lys Ser	
20 25 30	
cgg ctg ttg gag aag gag aac cgt gaa ctg gaa aag atc att gct gag	144
Arg Leu Leu Glu Lys Glu Asn Arg Glu Leu Glu Lys Ile Ile Ala Glu	
35 40 45	
aaa gag gag cgt gtc tct gaa ctg cgc cat caa ctc cag tct gta gga	192
Lys Glu Glu Arg Val Ser Glu Leu Arg His Gln Leu Gln Ser Val Gly	
50 55 60	
ggg tgt taa tag ggc gcg cca caa ttt cac agt aag gag gtt taa ctt	240
Gly Cys * * Gly Ala Pro Gln Phe His Ser Lys Glu Val * Leu	
65 70 75	
atg aaa aaa tta tta ttc gca att cct tta gtt gtt cct ttc tat tct	288
Met Lys Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser	
80 85 90	
cac tcc gct acg cgt tct cga gga ggt ggt gga aca tcc cgc ctg gag	336
His Ser Ala Thr Arg Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu Glu	
95 100 105	
ggc cta cag tca gaa aac cat cgc ctg cga atg aag atc aca gag ctg	384
Gly Leu Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu	
110 115 120 125	
gat aaa gac ttg gaa gag gtc acc atg cag ctg cag gac gtc gga ggt	432
Asp Lys Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly	
130 135 140	
tgc gcg gcc gct tat cca tac gac gta cca gac tac gca gga ggt cat	480
Cys Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Gly His	
145 150 155	
cac cat cat cac cat tag gga ggc ggt act gtt gaa agt tgt ctg cgt	528
His His His His His * Gly Gly Gly Thr Val Glu Ser Cys Leu Arg	
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aat aag gag tct taagtcgac	549
Asn Lys Glu Ser	
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 20 25 30

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<210> 25
 <211> 68
 <212> DNA
 <213> Viral

<400> 25
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<210> 26
 <211> 66
 <212> DNA
 <213> Viral

<400> 26
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<220>
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<400> 29
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09244-0904
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